

Utah Department of Natural Resources



Annual Report 2021



Resilience

2021 Directory of Services and
Annual Report for 2019–2020



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Division of Water Resources

Division of Water Rights

Division of Wildlife Resources

Utah Geological Survey

Cover photo: Desert tortoise. Photo courtesy of Wildlife Resources

NATURAL RESOURCES

DEPARTMENT UPDATE



Utah Department of Natural Resources



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Monday – Friday
8:00 a.m. – 5:00 p.m.
(closed on holidays)

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Executive Director's Commitment

What a year! I remain in awe of the dedication and resilience of our nearly 1,200-plus employees statewide. This past year has been full of promise and challenges, and through it, our staff has shown tremendous professionalism as they strive each day to do their jobs well. I've traveled the state this year being briefed on key issues and visiting with staff, stakeholders and elected officials.

I've learned a lot about resilience during this time. For example, Utah is full of diverse areas and ecosystems distinctly different from one another yet geographically close. Our wildlife traditionally adapts well between cycles of drought and heavy precipitation. Our natural resource industries, like the oil, gas, and mineral industries, ebb and flow through economic upturns and downturns. Our landscapes and watersheds can be harmed by fire, yet experience rebirth just a few years later.

I recently visited two areas impacted by wildfire near the Red Cliffs National Conservation Area and Snow Canyon State Park near St. George. These areas are habitat for the endangered desert tortoise. Due to the recent fires, the areas will need to be rehabilitated through our Watershed Restoration Initiative. Biologists have been surveying the area to determine impacts on the tortoise population as part of this process.

I've been encouraged by the species' resilience. Many tortoises survived by remaining in their burrows, underground and away from the fires. It's amazing to see life remain even after such catastrophic events.

I've also been encouraged by the ability of our staff to demonstrate similar resilience. Since March, many people have worked from home due to the pandemic. Yet they continue to meet the demands of their responsibilities and are working diligently to proactively manage Utah's natural resources and improve the quality of life enjoyed statewide. They do it because they love their jobs, and they love Utah.

I'm inspired by their dedication and look forward to leading them into the future. We have opportunities, and we have challenges. We'll meet them head-on together.

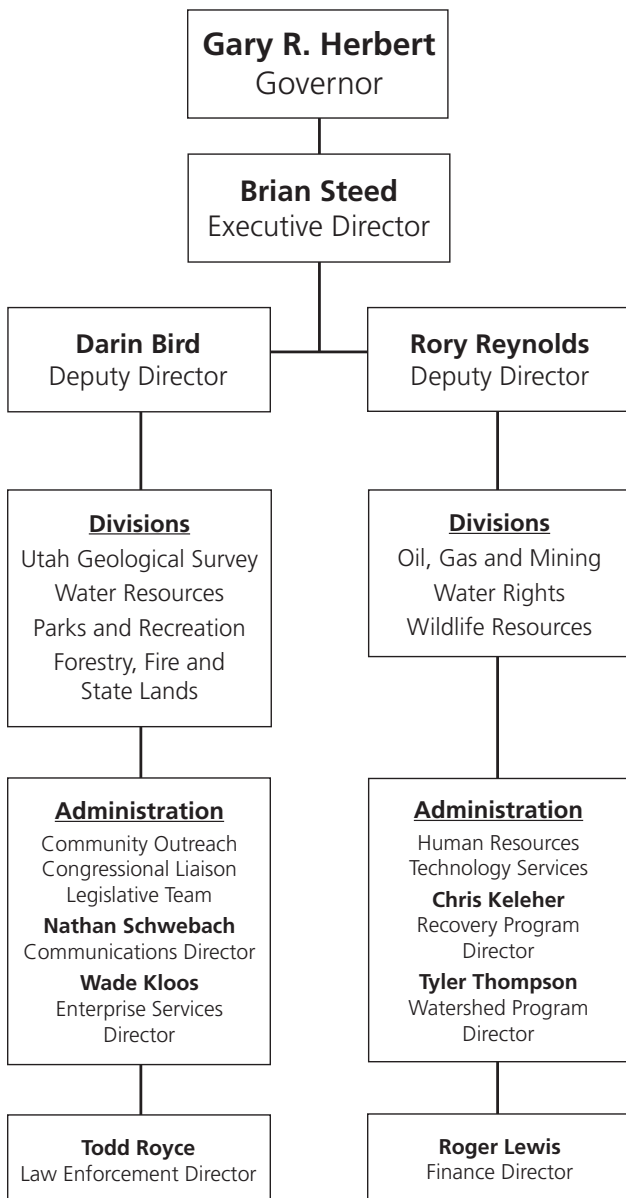


Brian C. Steed
DNR Executive Director

Department Goals

- ♦ Enhance the customer experience. Positive relationships with DNR customers comes first.
- ♦ Improve cross-division collaboration. Committed toward increasing efficiency and maximizing resources.
- ♦ Increase value within the department. Maximize taxpayer resources and decrease general fund reliance.

Organizational Chart



DNR Annual Employee Award Winners

Executive Director's Award

Devan Chavez, Division of Parks and Recreation



Devan Chavez has played a vital role in transforming the digital image and presence of State Parks during the past several years. Devan embraces any task given to him. He is a valuable resource that has helped the Division's 44 state parks keep their social media pages and websites current, modern, and relevant. He has used his creativity and resourcefulness to help launch multiple campaigns, including "Explore Utah," a digital campaign to increase brand awareness, as well as "Nobody's Invincible," a safety campaign on behalf of the off-highway vehicle and boating programs.

Leadership Award

Candice Hasenyager, Division of Water Resources



Those who meet Candice don't just meet another state employee. "They meet someone who sincerely cares about each person, their opinions and passions." They meet someone "who treats [them] like she's known [them] her whole life." Candice Hasenyager consistently demonstrates excellent leadership in thought and action. Her coordination, problem-solving, customer service and collaboration capabilities are invaluable. She's always willing to tackle difficult challenges, and uses her ingenuity and creativity to do so. Candice is fearless and has an unbelievable willingness to take on controversial issues. She has worked with the Water Banking Committee to apply for and received a WaterSmart Grant from the Bureau of Reclamation to study water banking issues.

Employee of the Year

Jamie Barnes, Division of Forestry, Fire and State Lands



As the Sovereign Lands Program manager, a role she took on at a moment's notice and has excelled from the beginning, Jamie's diligent work, strong sense of integrity, and willingness to accept difficult tasks have made her a role model not only in her Division and to her coworkers, but to the Department as a whole. Jamie's work is highlighted by her quick thinking and grit. She's a strong negotiator, which has proved to be a significant benefit to her Division and others. In 2017, she helped the Division of Wildlife Resources put out a parcel to bid. DWR received a record-setting bid, 2.5 times higher than the price originally negotiated.

Community Outreach

Chris Hanson, Division of Parks and Recreation



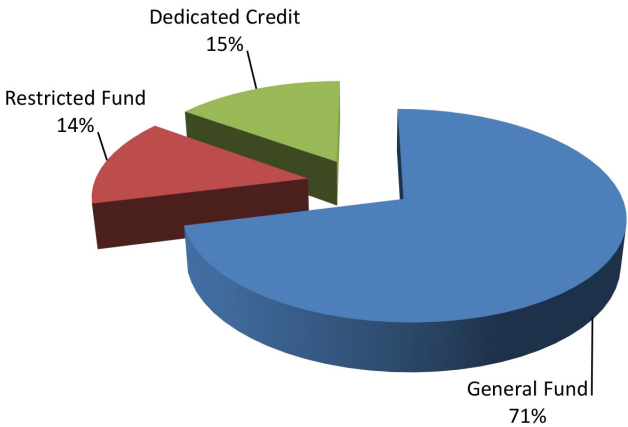
Chris proves the impossible possible. He has significantly helped increase visitations at Edge of the Cedars State Park Museum by using his creativity to heighten the visitor experience. He's quick to create powerful partnerships that help keep the museum relevant, interesting and innovative. His efforts know no boundaries and his positive nature and creativity help form valuable and loyal relationships with external partners. Chris is innovative and dynamic and provides solutions to complex challenges.

Chris Hanson has a strong passion for preservation, conservation, visitor services and the advocacy of state parks, surrounding public lands, and communities. His efforts at Goosenecks State Park have proven successful and have generated interest from visitors from all over the state, nation, and world. He's a wonderful leader and has created a culture of respect, compassion, and support among his staff.

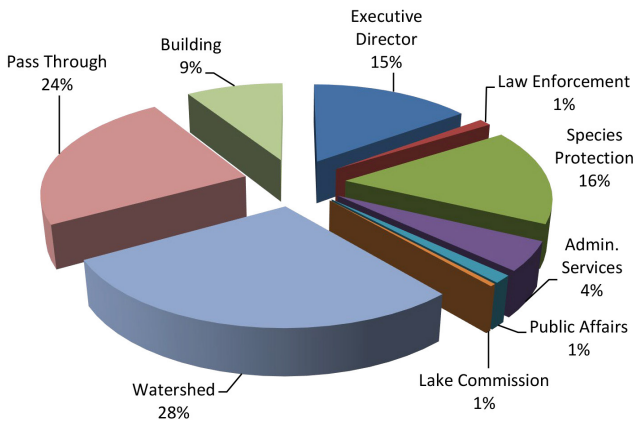
DNR Financials

**Fiscal Year Ending
June 30, 2020**
(Unaudited)

**Revenue
\$19,705,867**



**Expenses
\$19,705,867**



NATURAL RESOURCES

DIVISION UPDATES



FORESTRY



OIL, GAS & MINING



STATE PARKS



WATER RESOURCES



WATER RIGHTS



WILDLIFE RESOURCES



GEOLOGICAL SURVEY

Utah Division of Forestry, Fire and State Lands (FFSL)

Mission Statement

"The Division of Forestry, Fire and State Lands manages, sustains and strengthens Utah's forests, rangelands, sovereign lands and watersheds for its citizens and visitors."



The Alta Hotshots hiking off the line on the Big Springs Fire in Tooele County.

Utah Division of Forestry, Fire and State Lands



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Director's Commitment

It's a pleasure to write this year's report on behalf of the outstanding employees of the Division of Forestry, Fire and State Lands. The Division has nearly 140 year-round, full-time employees--with nearly twice that number when our seasonal fire-fighters are on staff--and all of them work diligently to manage, protect, and ensure the resiliency of lands across Utah.

2019 was highlighted by the signing of Utah's Shared Stewardship Agreement with the U.S. Forest Service and resulting implementation of numerous projects on the ground. The State and Forest Service are both committing extensive resources to Shared Stewardship leading to work being accomplished across Utah to protect communities, water sources and watersheds from unwanted wildfire. The Division's talented forestry staff, guided by Shared Stewardship and the Division's newly updated Utah Forest Action Plan, are certainly at the forefront of maintaining and restoring healthy forest ecosystems and urban forests throughout the state.

The 2019 wildfire season, by most measurements, was considered average, including the number of fires, acres burned and suppression costs. Unfortunately, the 2020 wildfire season is a completely different story and has gotten off to a difficult start. Whether it be the total number of fires, human-caused fire starts, suppression costs, or the additional challenges brought on by fighting wildfire in the midst of the coronavirus pandemic, the 2020 wildfire season is verging on historic. The Division's fire staff, in partnership with local fire departments and federal agencies, have done a remarkable job successfully and safely fighting fire in unprecedented conditions.

FFSL's Sovereign Lands Program had another extremely productive year managing the State's submerged lands, including the beds and shorelines of Bear Lake, Great Salt Lake, Utah Lake, Bear River, Jordan River, and the State's portions of the Green and Colorado rivers. We're particularly excited about our new Great Salt Lake Coordinator position, and the positive work being done with all of our local, state, federal, and NGO partners on the many complex GSL issues. With more than 1.5 million acres and 2,200 miles of shoreline, the sovereign lands staff does a tremendous job managing for the Public Trust, guided by the principles of multiple use and sustained yield.

The staff of the Division of Forestry, Fire and State Lands is extraordinary. Whether it be at the State Office in Salt Lake City, one of our six Area offices—Logan, Salt Lake, Heber, Moab, Richfield, and Cedar City—or the Lone Peak Conservation Center, their commitment to sustainability and sound management is leading to healthier, more resilient lands for Utah.



Brian Cottam
Division Director / State Forester

Division Accomplishments

Forestry

Through Utah's Shared Stewardship Agreement, the Division has partnered with the U.S. Forest Service Intermountain Region to jointly fund four on-the-ground projects in FY 2020 and seven projects in FY 2021. These landscape-scale projects will reduce the risk of catastrophic wildfire and help protect nearby communities and critical watersheds. The projects are located across the state and in all five of Utah's national forests. In addition, the Division hired a new Wood Utilization & Business Development Coordinator through Shared Stewardship to help stimulate economic development and new market opportunities for forestry and forest products in Utah.

The Forestry Program completed a five-year Strategic Plan for Forestry in late 2019, which updates the vision, goals, and program strategies for our Cooperative Forestry Programs (Forest Stewardship, Legacy, Health, and Urban & Community). The Division is also nearing completion of the required 2020 update of the Utah Forest Action Plan. The Forest Action Plan assesses and identifies strategies for protecting and sustaining healthy forests across the state over the next ten years.

The Forest Stewardship Program assisted private forest landowners in preparing ten new forest stewardship plans in 2020. The State currently has 92 active plans covering 266,041 acres. The Division also received a \$300,000 Landscape Scale Restoration Grant from the U.S. Forest Service for aspen restoration projects in southeastern Utah. Noteworthy was FFSL's Forest Stewardship & Legacy Coordinator, Natalie Conlin, being recognized as the top Forest Stewardship Forester in the nation last year by the U.S. Forest Service and National Association of State Foresters!

The Forest Health and Urban & Community Forestry programs began implementing a statewide project in 2019 to monitor and detect the Emerald Ash Borer (EAB), an invasive beetle that has become one of the most destructive forest insects to invade the United States. With support from the U.S. Forest Service, the Division has partnered with the Utah Department of Agriculture and Food to place 80 traps in strategic locations across the state to detect EAB and take necessary steps to contain or eradicate this pest.

The Division's Urban & Community Forestry (U&CF) Program assisted 124 communities in 2019, representing more than 76% of Utah's population. Communities planted 816 new trees and 8,249 seedlings, and local volunteers worked more than 12,438 hours to keep their cities green and vibrant. The U&CF Program and its partners also achieved 83 Tree City USA and 6 Tree Campus USA recipients in 2020.

Wildland Fire

The 2019 wildfire season was “average” by most measures; unfortunately, the 2020 fire season is anything but. The total number of fire starts is tracking at an all-time high half-way through the year--even more than the historic 2018 fire season!--and the number of human-caused fires in Utah, all of which are preventable, has the full attention of the Division and our partners. Add in the unexpected challenges of fighting fire during the COVID-19 pandemic and there will certainly be many things to remember and learn from the 2020 season. Many thanks to the firefighters across Utah for their professionalism, service, and constantly responding to the needs, both here in the state and elsewhere across the West. Federal, State, full-time and volunteer firefighters do extraordinary work throughout Utah with initial attack, structure and community protection, and assisting their neighbors and partner agencies when in need.

The Division’s Cooperative Wildfire System with local government is now in its fifth year since being adopted by the Utah Legislature. All 29 counties, 157 municipalities, and 15 special service fire districts (representing 77 additional cities and towns) have signed the Cooperative Agreement. These “participating entities” are now partners in one of the most progressive wildfire management systems in the country, focused on fire risk reduction through measurable prevention, preparedness, and mitigation actions at the local level.

Central to the Division’s pre-suppression efforts is the Governor’s Catastrophic Wildfire Reduction Strategy (CatFire). From 2014–2019, the Utah Legislature has allocated nearly \$9 million, funding 104 projects statewide, to reduce the risk of catastrophic wildfire. In 2020, the Division received an additional \$1 million for CatFire to accomplish 1,200 acres of hazardous fuels reduction, establish 2 permanent water storage tanks, complete 65 home assessments, and build three culverts and six emergency access gates. Additionally in 2020, FFSL’s WUI program was awarded funding for four projects from the U.S. Forest Service Hazardous Fuels Reduction Grant and two projects from the BLM Community Assistance Program targeting 1,200 acres of fuels mitigation work across the state on private lands adjacent to federal land fuels projects.

FFSL’s state-of-the-art fire business system (FBS) continues to gain recognition from our fire management partners across the West. The on-line FBS streamlines the business of fire--including billing, reporting, and reconciling of wildland fire costs--and greatly improves the accuracy and efficiency of increasingly complex wildfire accounting and reporting. The Division has now licensed the use of the software to Colorado, Nevada, and Wyoming, while Arizona, Idaho, Montana, New Mexico, and Washington are in the process of obtaining the license. FBS is becoming the west-wide standard for how fire business is conducted.

Sovereign Lands

This year the Division treated more than 7,035 acres of invasive species, including Phragmites, Tamarisk, and Russian olive, on state sovereign lands. In the coming year, the Division plans to aerial spray 2,270 acres and do ground treatments on more than 2,430 acres of Phragmites and other invasive species. With the support of a substantial on-going invasive species management appropriation during the 2019 legislative session, our invasive species treatment efforts continue to increase every year and the positive difference can be seen on the ground with reduced invasive species cover, increased bird use, and increased water supply.

With our many Bear Lake partners, the Division is currently working on an update to the Bear Lake Comprehensive Management Plan (CMP). This includes a public review and update of the existing CMP goals and objectives for the lake, along with the creation of any new goals and objectives. Also included in this plan will be a lake level analysis for better management understanding and resulting actions. Public draft of the plan is expected by February 2021, with a final plan being completed in May 2021.

Thanks to the Utah Legislature's ongoing annual funding, an immense amount of work is happening along the Jordan River Parkway in partnership with the Jordan River Commission. Parkway and river corridor enhancements include trail improvements and additions, vegetation management, including invasive species removal and native species restoration, increased law enforcement patrols by local police departments, new public access points to the river, cleaning up riverside encampments, and riverbank stabilization projects. Many thanks to all of our Jordan River Commission partners for the work they're doing along the river!

Great Salt Lake (GSL), which continues to shrink in size, is gaining much needed emphasis and attention from both the public and policy makers. From the Utah Legislature funding the Division's new GSL Coordinator position, to FFSL's Salinity Advisory Committee, to 2020's HCR 10 "Concurrent Resolution to Address Declining Water Levels of the Great Salt Lake," to the GSL Advisory Council's numerous initiatives, the many management challenges of the lake are being recognized and interagency solutions are being developed.

Forecast

Major policy and management issues for the Division in the coming year include:

- ◆ Watershed protection and forest health.
- ◆ Increased management and control of invasive species and noxious weeds (e.g., Phragmites).
- ◆ Impacts and improvements to Utah's urban and community trees and forests.

- ♦ Development in the wildland/urban interface and reducing associated wildfire risk.
- ♦ Forecasts for larger and more intense wildfires with unprecedented, erratic fire behavior.
- ♦ Paying for proactive wildfire risk reduction work, wildfire suppression, and post-fire rehabilitation costs.
- ♦ Ongoing implementation of the State's new Cooperative Wildfire System with local government and fire departments.
- ♦ Through the Utah Shared Stewardship Agreement, increase the pace and scale of our work with the U.S. Forest Service to reduce the risk of wildfire to communities and watersheds.
- ♦ Utilization of woody biomass to offset the cost of fuels reduction and wildfire mitigation work.
- ♦ Increasing complexity and demands of sovereign lands management.
- ♦ Decreasing water levels at Great Salt Lake and Utah Lake and resulting public impacts.
- ♦ Increasing litigation, such as the Weber and Provo Rivers lawsuits.
- ♦ Administering and undertaking the planning for the Utah Lake Restoration Project proposal according to State statute and the Division's Administrative Rules governing sovereign lands management and planning.

As a Division, we look forward to working on and finding solutions to these challenges for the benefit of all Utahns.



Volunteers work under the direction of division employees on a fuel reduction project in southern Davis County.

Key Services

Forestry

Manage the State's cooperative forestry programs, including Forest Stewardship, Forest Health, Forest Legacy, and Urban & Community Forestry. Administer the State's Forest Practices Act, including forest practices notifications and operator registry, and implement Utah's Forest Action Plan.

Wildland Fire

Responsible for wildfire management and suppression on Utah's state and private lands in partnership with county and municipal governments. Along with fire suppression, wildfire risk reduction through prevention, preparedness, and mitigation efforts at the local level is prioritized. This includes wildfire suppression training for state and local firefighters, fire department assistance grants, community wildfire preparedness planning, and coordination and implementation of both the Governor's Catastrophic Wildfire Reduction Strategy and National Cohesive Wildfire Management Strategy.

Lone Peak Conservation Center (LPCC)

Provides the State's wildland fire resources, including highly trained crews to both fight wildfires as well as undertake natural resource projects, such as fuels reduction. LPCC is proudly the home of both the Lone Peak and Alta Hotshot crews, making Utah one of only two states that hosts these highly trained and specialized wildfire suppression resources.

Sovereign Lands

Administers public, private and commercial uses of State-owned lakebed and riverbed lands in accordance with the public trust doctrine and principles of multiple use and sustained yield. State sovereign lands include the beds and shorelines of Bear Lake, Great Salt Lake, Utah Lake, Jordan River, and portions of the Green and Colorado rivers.

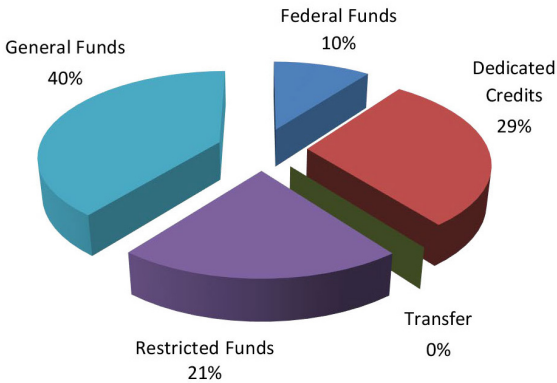


Dromedary Peak Fuels Crew removing Russian Olive and other invasive species from sovereign lands along the Bear River in Box Elder County.

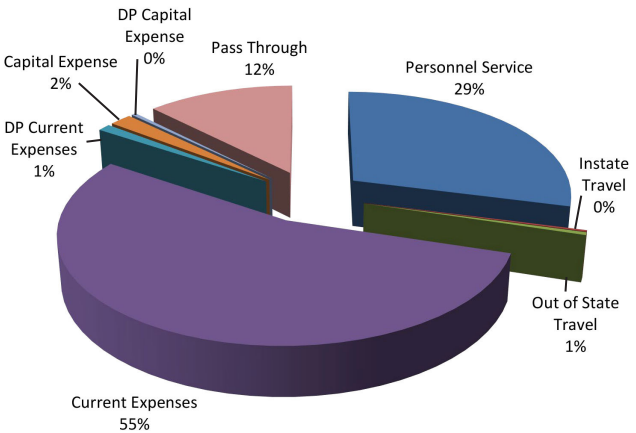
FFSL Financials

Fiscal Year Ending
June 30, 2020
(Unaudited)

Revenue
\$52,131,744



Expenses
\$52,131,744



Utah Division of Oil, Gas and Mining (DOGM)

Mission Statement

"The Division of Oil, Gas and Mining regulates and ensures industry compliance and site restoration while facilitating oil, gas and mining activities."



Mercur Mine reclamation in Tooele County.

Utah Division of Oil, Gas and Mining



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Utah Board of Oil, Gas and Mining

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Richard K. Borden

Mining, Salt Lake City

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Geology, Salt Lake City

Susan S. Davis

Oil and Gas, Bountiful

Michael R. Brown

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Gordon L. Moon

Royalty Interests, Duchesne

LaVonne Garrison

Oil and Gas, Salt Lake City

Julie Ann Carter, Board Secretary

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Director's Commitment

There is an often-quoted statement by German philosopher Friedrich Nietzsche that reads, "That which doesn't kill us makes us stronger." This is a difficult concept to understand and accept during times of severe suffering and sacrifice, such as what has been experienced in the world in recent months. However, there is value to the knowledge gained during difficult trials. New growth can occur, and organizations and societies can improve and achieve positive outcomes given the lessons learned and enough subsequent effort.

The Division staff is committed to continuous improvement to meet the evolving demands of industry and the general public. We have undergone an in-depth examination of our work processes and have identified improvements that will more efficiently and effectively provide value and benefit to the state and its citizens. Our inspection processes will be better prioritized so that we can directly observe those activities most impactful to health, safety, and environment. Our compliance procedures will improve to ensure accountability by those regulated parties who fail to adhere to necessary requirements. We are implementing technology and data management to innovate new solutions to problems of energy and mineral development in an ever-evolving landscape.

While the Division represents one small part of a larger interrelated system including the extractive industries, worldwide economies, and supply/demand cycles, our employees are passionate about ensuring responsible development of Utah's energy and mineral resources. Our experienced and skilled workers are committed to creating positive outcomes for the people of Utah and it is with pride and appreciation that I praise their dedication to the objectives of the Division.



John R. Baza
Director

Division Accomplishments

Coal

With the onset of Covid-19, the Coal Program staff has been primarily working from home since the middle of March. Fortunately, the program began migrating towards an electronic permitting system many years ago allowing coal operators to submit amendments and permit renewals online. As a result, staff has been able to complete their work on time with minimal disruption.

Staff continues reclamation work on the Horizon Coal Mine site. The major earthwork was completed on this bond forfeiture site in 2019. In 2020, staff has continued revegetation efforts and noxious weed control. As is a common issue with reclamation projects, thistle has made its presence known in a few pockets on the site and staff will work throughout the remainder of the summer to eradicate it. However, given the one growing season since the last augmented seeding, vegetation is coming in throughout the reclaimed area and looking healthy.



Staff continuing revegetation efforts and noxious weed control at the reclaimed Horizon Coal Mine site.

In 2019, Coal Program staff entered into a grant study with the Remote Sensing and Geographic Information Science (RS/GIS) Lab in the College of Natural Resources at Utah State University. The objective of the study was to quantify the effectiveness of ‘pocking’ as a reclamation technique. Pocking involves the construction of irregularly spaced dimples or holes (i.e., pocks) in the reclaimed slopes of mine sites to control erosion and encourage plant development. It is a reclamation practice that has long been used in Utah, however efforts to quantify the effectiveness of pocking has never been attempted.

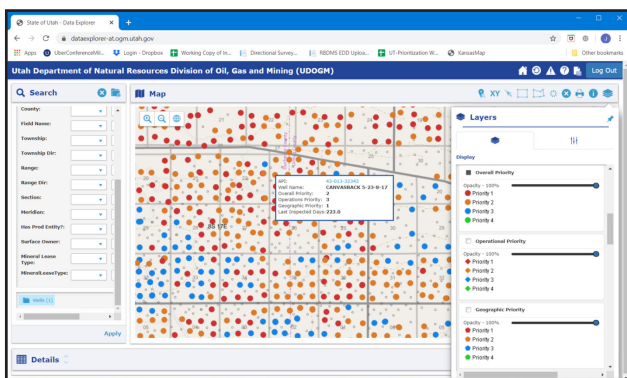
During the course of the study, ground data and drone flight imagery was obtained in 2019 and 2020 at the Cottonwood/Wilberg Mine. The data have been used to create ground change models that identify how a landscape is changing over time and will aid in evaluating erosion rates, vegetation success as well as identify specific areas that require additional field investigation.

Staff is proud to be involved in this study as it is the first of its kind to advance the understanding of pocking reclamation techniques. The study will conclude at the end of the summer and will include a General Technical Report (GTS) and Geographic Information System (GIS) tool that can be used in evaluating the effectiveness of pocking as a reclamation technique.

Oil and Gas

The Division's Oil and Gas Program field inspectors perform many types of inspections on approximately 16,000 oil and gas wells statewide. Inspections are critical to protecting the citizens and environment, while promoting responsible development.

Over the last several years, staff has worked with the Groundwater Protection Council (GWPC) to develop and implement a Field Inspection Prioritization Program designed to display in a spatial and report form which oil and gas sites should be inspected according to various inputs.



Field Inspection Prioritization Program designed to display in a spatial and report form which oil and gas sites should be inspected according to various inputs.

All oil and gas wells were given a priority rating from one (highest priority) to three (low priority). Prioritization is based on operational factors such as compliance issues and history, age of the well, and how long since the last inspection. Geographic factors include well proximity to surface water, groundwater, human population density, and wildlife habitat.

The program has been operational since January 2020 and has already helped our inspectors increase their inspection efficiency. The next step for the field application is developing real-time data collection that is automatically uploaded to the

database saving inspectors time and reducing input errors. The program empowers inspectors to consistently make decisions leading to reduced risk and more effective regulation through timely inspections

This is an effective tool that will give management and staff the ability to make data-driven decisions ensuring protection of Utah's resources, while promoting responsible development.

Abandoned Mine Reclamation

The Abandoned Mine Reclamation Program (AMRP) completed two coal and five non-coal abandoned mine reclamation projects. Coal reclamation consisted of the quenching and stabilization of coal refuse fires at two abandoned coal mine sites in Emery County, and the construction of a spring collection system for the North Emery County Special Service District as mitigation for a contaminated spring box due to abandoned coal refuse. Non-coal reclamation included the closure of 11 abandoned hard rock mines in the Tintic mining district of Juab County, the closure of 63 abandoned uranium mines in the Red and Fry mining districts of San Juan County, the closure of 73 abandoned fluorspar mines in the Spor Mountain mining district of Juab County, and the closure of 10 abandoned hard rock mines in the Sunshine and West Dip mining districts of Tooele County. In addition, maintenance was performed at 30 previously closed abandoned mine sites in the Fivemile Pass and Jacob City areas of Tooele County.



Quenching burning coal refuse at the abandoned Helco Mine in Emery County.



Worker installing supports for a rebar grate over a shaft at the Spor Mountain mine closure project in Juab County.

Education outreach efforts included the distribution of more than 22,000 *Mining Utah's Heritage* workbooks to 4th grade classes, designing and printing 1,700 calendars for distribution featuring the historic Park City mining district, and participating in 13 public outreach events.

Minerals

Program staff received and approved applications for three large mines: AMP Trace mining a volcanic deposit used as a soil supplement; Lake Mountain and Coyote Pit mining engineered materials such as rock aggregate. These mines are located in San Pete, Utah, and Tooele Counties. Staff also received, but not yet approved, an application to mine frac sand at the RHEX Mine in Uintah County.

In March, staff was informed that the Lisbon Valley Copper Mine in San Juan County had been shut down. Division Director John Baza subsequently issued an order requiring full reclamation by September 30, 2021. This was an acid heap leach operation, so reclamation includes drain down of fluids, removal of facilities, and regrading. Disturbance from the mine is approximately 984 acres.

Two bills passed in the 2020 Legislative session and signed by Governor Herbert have affected the minerals program. 1) Operations less than 50 acres mining basalt are now exempt from regulation by the Minerals Program. 2) The definition of small mines has been changed such that small mines can be up to 10 acres in incorporated areas and up to 20 acres in unincorporated areas.



During the past year, staff has been busy with rock aggregate operations. Sage Canyon Quarry, Lehi.

Forecast

The oil and gas industry experienced a major downturn in pricing and production since the beginning of 2020 and was exacerbated by the COVID-19 pandemic. Many operators' shut-in wells and temporarily suspended operations greatly impacting the tax and revenue the Division receives. The Division's budget relies heavily on monies generated from a conservation tax, which is .002 percent of the value of oil and gas produced in the state.

The Division will need assistance from policymakers to help maintain our role of ensuring responsible development of resources while protecting citizens from the adverse impacts of development.

Key Services

Oil and Gas

Permits, inspects, and monitors oil and gas wells statewide. Staff maintains a database of information regarding ownership, production, disposition, and status of oil and gas exploration, production wells, and facilities.

Coal and Mineral Permitting

Issues permits and monitors coal and mineral mining operations to ensure compliance with federal laws and regulations.

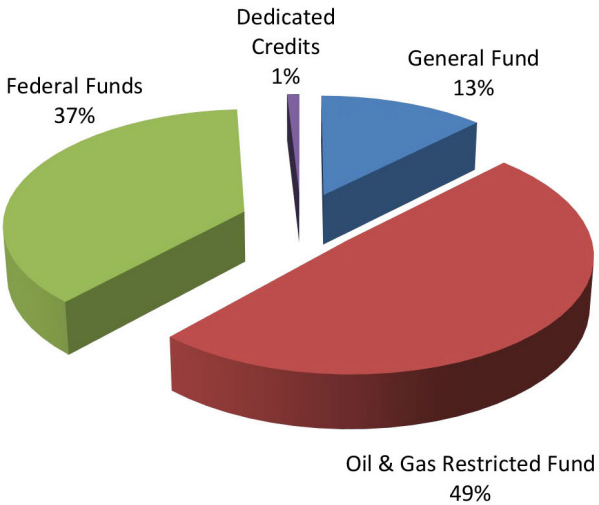
Abandoned Mine Reclamation

Identifies abandoned mines and permanently seals off access to reduce accidents and hidden hazards. Division staff also provides outreach programs to schools and communities educating the public about the dangers of abandoned mines.

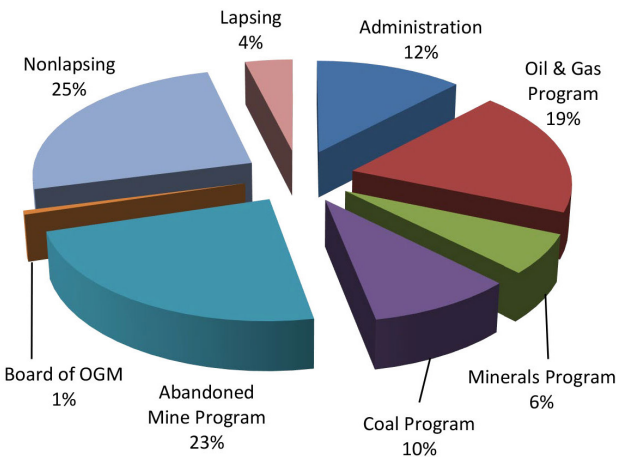
DOGM Financials

**Fiscal Year Ending
June 30, 2020**
(Unaudited)

Revenue \$15,881,743



Expenses \$15,881,743



Utah Division of Parks and Recreation (UPR)

Mission Statement

"The Division of Parks and Recreation preserves and provides natural, cultural, and recreational resources for the enjoyment, education, and inspiration of this and future generations."



Seasonal employee, Otter Creek State Park

Utah Division of Parks and Recreation



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801-538-7378 (fax)
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Executive Team



L to R top: Dave Harris, Jeff Rasmussen, Scott Strong

L to R bottom: Eugene Swalberg, Eric Stucki, Kate Croft

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Eric Stucki — Legislative Liaison
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Salt Lake City, UT 84116-1555
801-533-5127

Southeast Region

Megan Blackwelder, Region Manager
1165 South Highway 191, Suite 7
Moab, UT 84532-3062
435-259-3750

Southwest Region

Wayne Monroe, Region Manager
646 North Main Street
Cedar City, UT 84721
435-586-4497

State Parks and Museums

Anasazi State Park Museum

Jamie Skidmore, Park Manager
435-335-7308

Antelope Island State Park

Jeremy Shaw, Park Manager
801-773-2941

Bear Lake State Park

Richard Drolesbeke, Park Manager
435-946-3343

Camp Floyd/Stagecoach Inn State Park and Museum

Clay Shelley, Park Manager
801-768-8932

Coral Pink Sand Dunes State Park

Josh Hansen, Park Manager
435-648-2800

Dead Horse Point State Park

Dillon Hoyt, Park Manager
435-259-2614

Deer Creek State Park

Bruce Strom, Park Manager
435-654-0171

East Canyon State Park

Chris Haramoto, Park Manager
801-829-6866

Echo State Park

Eric Bradshaw, Park Manager
435-336-2241

Edge of the Cedars State Park Museum

Chris Hanson, Park Manager

435-678-2238

Escalante Petrified Forest State Park

Bevan Monroe, Park Manager

435-826-4466

Flight Park State Recreation Area

Drew Patterson, Park Manager

801-533-5127

Fred Hayes State Park at Starvation

Alan Spencer, Park Manager

435-738-2326

Fremont Indian State Park and Museum

Kevin Taylor, Park Manager

435-527-4631

Frontier Homestead State Park Museum

Giani Julander, Park Manager

435-586-9290

Goblin Valley State Park

James Wells, Park Manager

435-275-4584

Goosenecks State Park

Chris Hanson, Park Manager

435-678-2238

Great Salt Lake State Park Marina

David Shearer, Park Manager

801-250-1898

Green River State Park and Golf Course

Aaron Farmer, Park Manager

435-564-3633

Gunlock State Park

Jon Allred, Park Manager

435-680-0715

Historic Union Pacific Rail Trail State Park

Eric Bradshaw, Park Manager

435-649-6839

Huntington State Park

Brian Kurta, Park Manager

435-687-2491

Hyrum State Park

Chris Bradshaw, Park Manager

435-245-6866

Jordan River OHV State Recreation Area

Mike Thomas, Park Manager

801-533-5425

Jordanelle State Park

Jason Whittaker, Park Manager
435-649-9540

Kodachrome Basin State Park

Nathan Martinez, Park Manager
435-679-8562

Millsite State Park

Brian Kurta, Park Manager
435-687-2491

Otter Creek State Park

Lance Eliason, Park Manager
435-624-3268

Palisade State Park

Shon Tripp, Park Manager
435-835-6676

Piute State Park

Lance Eliason, Park Manager
435-624-3268

Quail Creek State Park

Candace Smith, Park Manager
435-879-2378

Red Fleet State Park

Vacant, Park Manager
435-789-4432

Rockport State Park

Eric Bradshaw, Park Manager
435-336-2241

Sand Hollow State Park

Johnathan Hunt, Park Manager
435-680-0715

Scofield State Park

Brian Kurta, Park Manager
435-448-9449

Snow Canyon State Park

Kristen Comella, Park Manager
435-628-2255

Steinaker State Park

Vacant, Park Manager
435-789-4432

Territorial Statehouse State Park Museum

Carl Camp, Park Manager
435-743-5316

This Is The Place Heritage Park

Private Foundation Director
801-582-1847

Utah Field House of Natural History State Park Museum

Steve Sroka, Park Manager
435-789-3799

Utah Lake State Park

Josh Holt, Park Manager
801-375-0731

Wasatch Mountain State Park and Golf Course

Tracy See, Park Manager
Park: 435-654-1791
Wasatch Golf: 435-654-0532
Soldier Hollow Golf: 435-654-7442

Willard Bay State Park

James Morgan, Park Manager
435-734-9494

Yuba State Park

Cheston Slater, Park Manager
435-758-2611

Online Resources

Website

stateparks.utah.gov

Boating Safety

stateparks.utah.gov/boating

Camping Reservations

utahstateparks.reserveamerica.com

Off-Highway Vehicles

stateparks.utah.gov/ohv

Facebook

facebook.com/utahstateparks
facebook.com/UtahStateParksBoatingProgram
facebook.com/UtahStateParksOHVProgram

Twitter

@UtahStateParks

Instagram

@UtahStateParksandRec

Director's Commitment

From the azure waters of Bear Lake in the north to the glowing Coral Pink Sand Dunes in the south, Utah is awash in spectacular state parks and recreation destinations. These beautiful sites provide opportunities for Utah's families and visitors to play, relax, and explore in some of the most gorgeous venues on earth.

The year 2020 has demonstrated how vital state parks are to the health and wellbeing of Utahns. Amid the closure of many public and private outdoor recreation opportunities in the state, Utah State Parks have remained open throughout COVID-19 to provide this essential service. Even as visitation from out of state declined due to travel restrictions, the demand from our local communities has continued to grow. For the first time in our agency's history, parks have had to implement routine reduced capacity caps to manage crowds and aid in social distancing measures. Our staff has risen to the challenge of providing safe and healthy recreation opportunities during the pandemic with efforts that are nothing short of heroic.

In addition to taking a wide variety of steps critical to reducing the risk of transmission, Utah State Parks have exhibited creativity and resilience as they adapt recreational opportunities and resources. From virtual park visitation to online museum collection tours and socially distanced events, our parks have responded to this year's challenges with innovation and alacrity.

Meanwhile, we have continued to pursue long-term growth by expanding park offerings with new facilities and attractions. We listened to our visitors' requests for more lodging options and have added more rental cabins, new campgrounds, and a wide array of "glamping" style accommodations.

Utah State Parks offer something for everyone. We strive to create opportunities for all our visitors to play, explore, learn, connect, and be inspired by the lifelong memories of time spent together with family and friends in the outdoors and at our heritage sites.



Jeff Rasmussen
Director

Division Accomplishments

- ◆ The new 25-site Dry Hollow Campground at Echo State Park was completed and opened for business in early June. It features water and electric hookups, group sites, modern restrooms, and lakeshore access, and is a welcome new recreational opportunity in the Summit County area.
- ◆ Construction is underway on a new day-use area at Willard Bay State Park. The project reclaims an old excavation site where material was removed to raise the dike, and will feature a 14-acre lake with swimming beaches, fishing docks, paddle sports opportunities, and picnicking areas. This new opportunity is expected to be completed by spring of 2021.



Willard Bay State Park construction section.

- ◆ At Antelope Island State Park, a new 35-site campground with water and electric hookups is in the final design stages and will be available for next year's camping season. As one of our most popular parks, Antelope Island's three existing rustic campgrounds are consistently full during peak seasons. The new campground will have a "cabin village," which will appeal to a new visitor category that prefers cabins, yurts, and tiny homes.
- ◆ The majority of our main park signs are over 25 years old and are in need of replacement. A multi-year replacement project is currently underway. The new signs better identify the sites we manage and convey an updated Utah State Parks brand to visitors entering our parks. So far, new signs have been completed at Jordan River OHV Park, Rockport State Park, Deer Creek State Park, Fred Hayes State Park at Starvation, Wasatch Mountain State Park, and the State Park golf courses at Wasatch Mountain and Soldier Hollow.
- ◆ Over the last few years, we have invested over \$42M of revenue generated by our parks back into our state park system in the form of new and improved amenities, expanded day-use and camping areas, and new lodging. Our next round of these improvements will include a new entrance station and office at Escalante State Park; day-

use area and beach improvements at Bear Lake State Park (North Eden); new campgrounds at Gunlock State Park, Goblin Valley State Park, and Wasatch Mountain State Park; and expanded parking at Snow Canyon State Park. These projects are investments that will improve outdoor recreation opportunities, enhance the economies of local communities, and generate more revenue to further improve our state park system.

- ◆ Federal Legislation passed that will transfer over 6,000 acres of BLM land to Goblin Valley State Park. The Bureau of Land Management, Emery County, and Utah State Parks are working together to create management goals and plans to maximize recreational opportunities while preserving the natural resources in this beautiful area.
- ◆ Division employees have done an amazing job managing our state parks during the COVID-19 crisis. When most business and government agencies were scaling back or shutting down, our staff kept our parks open and available to the public, providing safe outdoor recreation services essential to the mental and physical health of the citizens of Utah. An online day-use payment system called ParkHub was implemented for ease of access for visitors and less direct contact with staff during COVID-19.
- ◆ The Division's OHV Program administered \$2,500,000 in OHV grants geared toward improving off-road trail opportunities across the state.
- ◆ While protecting Utah's state parks, waterways, and off-highway vehicle recreation areas, law enforcement park rangers handled over 8,600 violations last year, as documented in 12,800 reports. They also performed hundreds of vessel assists and tows on Utah's waterways and inspected approximately 3,700 vessels for life jackets and other safety equipment.
- ◆ Division staff performed 80 search and rescue missions for individuals who were lost, missing, and often in life-threatening situations. We also responded to 97 medical incidents with many lives saved.



Utah Division of Parks and Recreation statewide boating program.

Forecast

In 1957, an act of the Utah Legislature created the Utah Division of Parks and Recreation to develop and manage a state park system for the enjoyment of the citizens of this state, the enjoyment of visitors to the state, and the protection of scenic and historic sites important to the culture of Utah. Originally, this new park system included five parks.

In the 63 years hence, the system has grown to 44 state parks and historic sites, and has become a centerpiece of Utah's outdoor recreation industry. Visitation surged in 2020 amid the coronavirus pandemic, proving that outdoor recreation is indeed an essential service for the citizens of Utah.

As we look to the future, we aspire to unfaltering leadership in natural resource stewardship and the outdoor recreation industry. We plan to expand the park system and continuously improve existing offerings to accommodate growing numbers of visitors and provide rich, dynamic recreation experiences.

We also understand the critical importance of Utah State Parks and the services our agency provides to the public. It is vital that Utahns can count on us. Even as we plan for strategic expansion of our park system, we intend to prioritize stability, adaptability, and resilience.



Coral Pink Sand Dunes State Park

Key Services

44 Utah State Parks

The Division of Parks and Recreation manages Utah's state park system, which includes operations, planning, administration, and protection of 44 heritage, scenic, and recreation parks.

State Boating Program

This program administers the State Boating Act to regulate and promote safety, education, facilities, search and rescue, and boating enforcement on Utah's waterways, and administers the federal Motorboat Access Grant and the Clean Vessel Act.

State Off-Highway Vehicle Program

The Division administers summer and winter off-highway vehicle operations, including education, trail maintenance, facilities, new trail development, infrastructure, grant programs, rider compliance, accident investigation, and search and rescue.

Heritage Program

This program administers historical, archeological, and paleontological properties within the state park system and works with heritage entities around the state to preserve our shared cultural resources.

Law Enforcement Program

We provide public safety, enforcement services, and land stewardship for visitors of Utah's 44 state parks, on Utah's 80,000 miles of off-highway vehicle trails, and on 668 square miles of freshwater lakes and reservoirs.

Grant Program

The Division administers the Land and Water Conservation Fund; the non-motorized and motorized trail grant programs; and Boating Access and Clean Water Act grants.



Utah Division of Parks and Recreation off-highway vehicle program.



Utah Division of Parks and Recreation heritage program.

Strategic Planning

The Division guides short-term and long-term site management to protect and interpret each park's natural and cultural resource base; ensure safe and enjoyable visitor experiences; provide new visitor opportunities; and develop and enhance facilities to meet visitor needs.

Publications

The Division creates publications that provide concise information to constituents regarding Utah State Parks and recreation programs, including individual park brochures and a statewide field guide.

New Media and Website (stateparks.utah.gov)

The Division provides an abundance of online information, tools, and services. Customers can discover park information and events, reserve a campsite, purchase an annual pass, and engage in our online community on social media.



Echo State Park newly completed campground, construction section.

Division of Parks and Recreation Board



L to R: Jeff Rasmussen, Natalie Randall, Corey Cram, Lesha Coltharp, Darin Bird, Ryan Starks, Bob Murri, Kevin Christensen, Scott Strong, Kate Croft

Bob Murri, Chair

Davis, Morgan, and Weber Counties

Ryan Starks, Vice Chair

Utah, Juab, Wasatch, and Millard Counties

Doug Thompson

Box Elder, Cache, and Rich Counties

Corey Cram

Beaver, Iron, and Washington Counties

Russ Steadman

Salt Lake, Tooele, and Summit Counties

Lesha Coltharp

Uintah, Daggett, and Duchesne Counties

Claudia Jarrett

State-at-Large

Kevin Christensen

Kane, Garfield, Piute, Sevier, Sanpete, and Wayne Counties

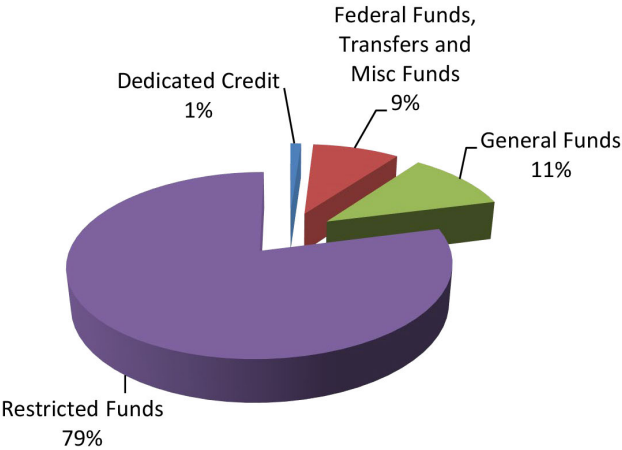
Natalie Randall

Emery, Carbon, Grand, and San Juan Counties

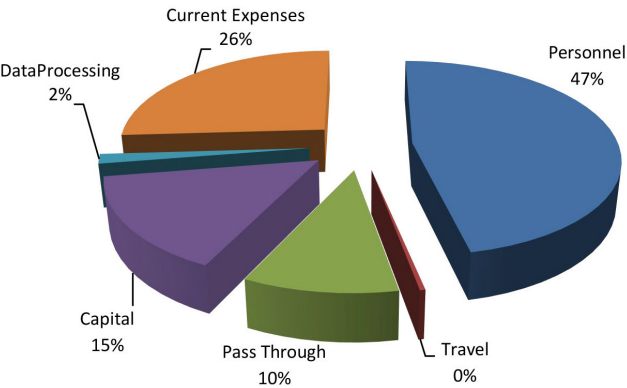
UPR Financials

Fiscal Year Ending
June 30, 2020
(Unaudited)

Revenue
\$51,896,578



Expenses
\$47,309,785



Utah Division of Water Resources (DWRe)

Mission Statement

"The Division of Water Resources plans, conserves, develops and protects Utah's water resources."



Work continues on the Millsite Dam Rehabilitation Project to bring the dam into compliance with minimum dam safety requirements including earthwork to stabilize in case of earthquakes, installation of a filter and drain system, and constructing a new spillway to pass flood flows.

Utah Division of Water Resources



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L to R: Candice Hasenyager, Lindsay Russell, Jim Egbert, Todd Adams, Todd Stonley, Joel Williams, Marcie Larson

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Todd Stonely — Assistant Director - Planning

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Lindsay Russell — Executive Admin

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Marcie Larson — Communications, Water Efficiency & Education Manager

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Jim Egbert — Budget Officer

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Online Resources

Twitter

@UTAHsavesH2O

Facebook

facebook.com/ConserveUtahWater

Water Conservation

ConserveWater.utah.gov
SlowTheFlow.org
Water.Utah.gov

Director's Commitment

Resiliency. It's not only the DNR theme this year, it's a culture that DNR has cultivated since its establishment in 1967. It's one of many reasons I have loved and devoted my career to its mission and the Division's mission to plan, conserve, develop and protect Utah's water resources.

It's been a non-stop whirlwind since I was appointed director of Water Resources in December 2019. Then, 2020 happened bringing with it a coronavirus pandemic, earthquakes, fires, drought, protests, and recent economic uncertainty. Throughout it all, the Division continued to work with local, state, and federal agencies to ensure water is available, safe, and reliable for current and future Utahns.

I'm extremely fortunate to have worked at Water Resources for my 30-year career, and I was privileged to work directly with the Division's previous three directors who helped shape, guide, and prepare me for my new role. It's been intimidating, but I'm up for the challenges the future is sure to bring. There's a saying that has stuck with me since I heard it, "you'll never build a project you don't plan for." This rings true because my focus throughout my career has been water planning that evaluates the state's water needs and determines where projects are needed.

Recent projects to build Utah's water resiliency include:

- ♦ **Regional Water Conservation Goals** – Rather than a statewide goal, the new goals are tailored to the specific needs of nine regions around the state.
- ♦ **Lake Powell Pipeline** – A proposed 140-mile pipeline that will provide a second reliable water source for the citizens in Southwest Utah.
- ♦ **State Water Plan** – A comprehensive plan to educate, illustrate, and guide citizens, water managers and policymakers through complicated water issues.
- ♦ **Open Water Data Website** – The Division provides a wealth of water data that's readily available to the public including interactive apps, maps, and data visualizations.
- ♦ **Interstate Streams** – Continuing to work with our neighboring states on Colorado River and Bear River efforts remains a priority.

The tools and technology have changed since my first day on the job, but the one thing that has stayed the same is staff's dedication to fulfilling the Division's mission. I quickly learned how the work we do impacts our state, citizens, environment, and economy. None of which could have happened without our amazing staff. These are unprecedented times, but we've faced difficult times before. We are resilient and will continue

to do our best to move the work forward to meet Utah's water needs now and into the future. We're committed to working collaboratively on solutions that will continue to nurture Utah's water needs.



Todd D. Adams
Director

Division Accomplishments

Some of our key accomplishments over the past year include:

- ◆ The Water Banking Act was passed during the 2020 legislative session. This allows for the creation of water banks that facilitate local, voluntary, and temporary transactions that generate income for water right owners and increase access to water. Also the Division was awarded a \$400,000 WaterSMART Water Marketing Strategy Grant from the Bureau of Reclamation. The grant will be leveraged with state funds to develop a statewide water marketing strategy and scope three pilot projects to inform the strategy.



The Division received a grant from the Bureau of Reclamation to explore the concept of water banking, which facilitates the voluntary temporary transfer of the use from one user to another.

- ◆ It's been over a year since water officials from all seven Colorado River Basin states joined representatives from the Department of the Interior and Bureau of Reclamation to sign drought contingency plans designed to reduce risks from ongoing drought and protect the Colorado River, Lake Powell, and Lake Mead, and its users. Since then, the Upper Basin states (Colorado, New Mexico, Utah and Wyoming) have been studying demand management and how the concept may work in the Upper Basin. No conditions have been encountered that have necessitated Upper Basin Drought Response Operations or initiated any steps outlined in the process. However, the Lower Basin was declared to be in a Tier Zero shortage condition for the year 2020, which requires 200,000 acre-feet contribution to Lake Mead from Arizona and Nevada combined.
- ◆ The Water-Related Land Use program provides data on the type of crops and acreages grown to assist in estimating agricultural water use across the state. It now has parts of the process automated through code. This increases defensibility and repeatability.
- ◆ Stakeholders and the public helped to develop regional water conservation goals for nine regions around the state for municipal and industrial water conservation. The goals vary by region, which allows them to account for climate, elevation, growing season, and specific needs. The goals have been used to update the State Water Plan.
- ◆ The Utah Water Savers program has awarded over \$1 million in rebates since the program's inception in 2018. The program passed this million-dollar "rebates processed" milestone in May 2020. The rebate program started with smart irrigation controller rebates for Utah residents, and in February 2019, low-flow toilet rebates were added. Partnerships with the largest four water districts have enabled staff to keep up with an increasing amount of applications. This program is made possible thanks to the Governor's Office, that recommended, and the Utah Legislature that appropriated, ongoing funds for water conservation and efficiency efforts.
- ◆ The Division uses a variety of communications methods to promote water efficiency and education including advertising our H2Oath: Utah's Water Wise Pledge, Weekly Lawn Watering Guide, Hall of Fame or Shame, and the Slow the Flow campaign.
- ◆ We continue to live stream Board of Water Resources meetings, which are available on the DNR YouTube channel. Because of the COVID-19 pandemic, board meetings continue to be held electronically, with public comment accepted via an online form.
- ◆ Utah is a partner in the Slow The Flow campaign—a state-wide education and awareness initiative that promotes waterwise behaviors.

- ◆ The Board of Water resources loaned \$38.2 million for 15 projects that improve efficiency for agricultural irrigation systems, municipal water systems, or help sponsors with their share of dam safety upgrades.
- ◆ Included in the above amount is \$17.7 million to install secondary water meters, which have been shown to reduce water usage approximately 35%. These low-interest loans help cover the costs of the meters and will be repaid.
- ◆ The Board also granted an additional \$3.86 million for five dam safety projects.
- ◆ The Board was tasked with building the Lake Powell Pipeline in the 2006 legislative session for the purpose of diversifying and adding reliability to Utah's fastest-growing and one of the driest regions—Washington County. Major project milestones in the last year include:
 - Reclamation released the Draft Environmental Impact Statement, which confirms the project is needed, affordable, and has minimal environmental impacts.
 - The Office of the Legislative Auditor General completed A Performance Audit of the Repayment Feasibility of the Lake Powell Pipeline, determining that the Washington County Water Conservancy District has sufficient revenue generating capability to repay the state for the project.
 - The Board withdrew its application from the Federal Energy Regulatory Commission and transitioned to the Bureau of Reclamation as the lead agency after peak hydropower plants were removed from the project plans. This reduced cost, streamlined the permitting process, and minimized environmental impacts.



Public comment was received for the Lake Powell Pipeline Draft EIS.

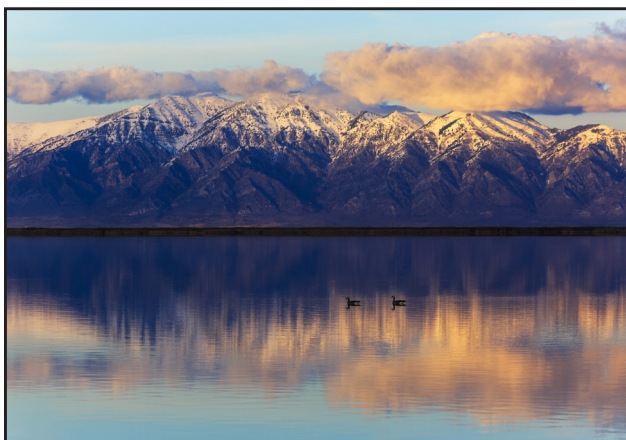
- ◆ The latest study regarding the Bear River Development was released in November 2019 and includes 13 potential reservoir combinations and pipeline alignments, as well as updated cost estimates. Current projections indicate the water won't be needed until 2050. At full development, the project will eventually deliver 220,000 acre-feet of water annually to Utahns in Box Elder, Cache, Davis, Salt Lake, and Weber Counties. Corridor preservation is currently underway to reduce costs and future impacts to surrounding communities.

Forecast

During the next fiscal year, we will continue to proactively address the following:

- ◆ The 2021 State Water Plan will be published in early 2021. A 45-day public comment period to receive comments will precede publication. Comments may be submitted through an online form. In this plan, the Division commits to taking specific actions to increase water conservation and change water-use practices. Preparing for future water demand continues to be the top long-term challenge facing the Division and Utah water in general as population growth is projected to double by 2065, nearing 6 million people.
- ◆ The Division helps lead efforts to recommend changes to the U.S. Drought Monitor maps to keep up with changing conditions. A Utah Drought Webinar is held as needed, typically bi-weekly in the spring and summer, to gather feedback on conditions around the state. Although the water year seemed to be progressing toward an average or slightly above average year, an extremely dry April quickly and dramatically changed the water year outlook. High temperatures followed and snowpack melted early. Most northern reservoirs were still able to fill to near capacity; however, central to southern reservoirs were not. In addition, rangelands and irrigation companies not supported by reservoirs struggled. Ranchers hauled hay and irrigation water was cut significantly. Mother Nature is fickle, and conditions can change quickly.
- ◆ Division staff and representatives from the Idaho Department of Water Resources and PacifiCorp have been working on the Joint Bear River Planning Model to assist in planning efforts. The model represents reservoir operations within the Lower Division of the Bear River from 1980–2018 with remarkable accuracy. The model was developed to answer questions about making changes to flood control operations and to assess impacts to Bear Lake storage and resulting downstream effects. Different operations scenarios have been analyzed and summarized. A report is expected to be published by the end of the year that outlines the working group's study questions and key findings.

- ♦ The Division is actively working to increase public transparency and is revamping its ConserveWater.Utah.Gov, SlowTheFlow.Org, and WaterEd.Utah.Gov websites. Additional resource pages are in development as well as an updated look, feel, and navigation for the Open Water Data website. These changes will be live this fall. This interactive website allows users to access water data in a variety of ways, including interactive maps, charts, and data downloads and continues to provide accessibility and transparency.
- ♦ Even with changes in policies, landscapes, and technology, conservation alone will not be enough to meet future water needs. Water use conversions, development of new supplies, and repair and replacement of existing infrastructure will also be needed.



The latest Bear River Development study includes 13 potential reservoir combinations and pipeline alignments, as well as updated cost estimates.

Key Services

Water Education and Conservation

The Division works with local water agencies, individuals and professional groups to develop and implement water conservation programs to reduce per capita water use. Prior year education efforts included water education instructional materials the division developed and distributed to teachers and students in Utah's public schools. However, budget cuts for the 2020–2021 fiscal year significantly reduced the water education program. The Division's watered.utah.gov website will continue to offer water education information but classroom support and the annual poster contest have been discontinued. The Division partners in campaigns with Slow the Flow, posts a Weekly Lawn Watering Guide via social media, and runs the H2Oath competitions. The conservation team provides support for water conservation plans to assist water system managers in meeting requirements outlined

in the Water Conservation Plan Act. The conservation team also administers water-saving rebates to Utahns statewide for smart-controllers and toilets, and the program continues to showcase the public's commitment to be waterwise.

Water Development and Conservation Funds

The Board of Water Resources administers three state water development and conservation funds to provide funding for water infrastructure projects that improve agricultural system efficiency, municipal water systems, or help sponsors with their share of dam safety upgrades. Since the Board was established in 1947, it has provided over \$850 million in loans for nearly 1,500 projects totaling approximately \$2.3 billion.

Technical Assistance

The Division provides technical water development and planning assistance to Utah water users to ensure this critical resource is properly utilized.

Water Planning

The Division is responsible for the state water planning effort, which tracks Utah's current and long-term water-related needs, inventories municipal and industrial water use and water-related land use, and performs water-use studies. Municipal and industrial water use data for 2018 was collected, quality checked, and published this year. Statewide, the average water used in 2018 was 241 gallons per capita per day (GPCD). This includes all public water system use – indoor and outdoor – for municipal (city and residential), institutional, and industrial users. Water use is calculated by combining all water used in the four listed categories and dividing it by the state population. Metered indoor and outdoor potable water use, 164 GPCD, is combined with secondary (metered and estimated) water use, 77 GPCD, which totals 241 GPCD. Water use varies from year to year depending on the climate and available supply. Collection of 2019 water use data is currently in progress.



A geologist inspects fractures in the bedrock to determine potential seepage issues at the Millsite Dam Rehabilitation Project.

Hydrology and Modeling

The Division has developed and maintains the state water budget, which estimates all the water used in the state over the last 30 years. In addition, staff develops geographic information system applications and water demand/supply and hydrologic models to assist in the state's planning needs.

Interstate Streams

The Division of Water Resources director is Utah's interstate streams commissioner, helping to defend and protect Utah's right to develop and use its entitlements in the Colorado, Bear, and Columbia rivers.

Cloud Seeding

The Division regulates and promotes cloud seeding that augments natural precipitation to enhance snowpack. The field program runs November to April and is funded jointly by the state and local water interests as well as the Lower Colorado Basin states of Arizona, California, and Nevada.



Utah has been cloud seeding since the early 1950s to help augment the state's water supply. Photo courtesy North American Weather Consultants.



Water Resources engineer Boyd Phillips loves his job so much he has continued working part-time for the Division even after retiring in 2003. To celebrate his 90th birthday, he took a spin in a 1929 Ford Roadster (built the same year he was born) to meet Lt. Gov. Spencer Cox who congratulated him on his many years of public service.



L to R top: G. Wayne Andersen, Kyle Stephens, H. Blaine Ipson, Randy Crozier; L to R bottom: Juliette Tennert, James Lemmon, Norman L. Johnson, Charles Holmgren

Board of Water Resources

H. Blaine Ipson, Chair

Sevier River District

Millard, Sanpete, Sevier, Piute, and Wayne Counties

Kyle Stephens, Vice Chair

Weber River District

Weber, Davis, Morgan, and Summit Counties

Norman L. Johnson

Upper Colorado River District

Carbon, Emery, Grand, and San Juan Counties

James A. Lemmon

Lower Colorado River District

Beaver, Garfield, Iron, Washington, and Kane Counties

Juliette Tennert

Salt Lake and Tooele Counties

Randy Crozier

Green River District

Daggett, Duchesne, and Uintah Counties

G. Wayne Andersen

Provo River District

Juab, Utah, and Wasatch Counties

Charles Holmgren

Bear River District

Box Elder, Cache, and Rich Counties

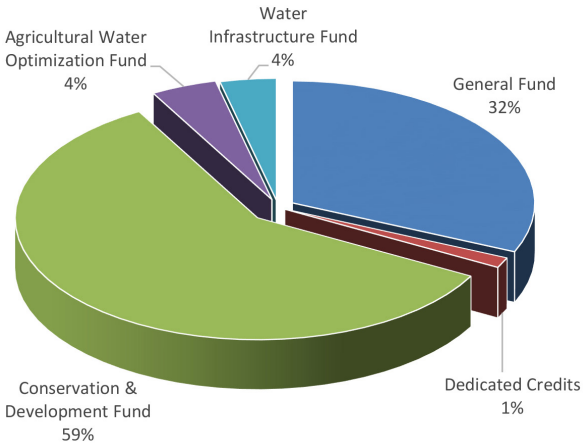
Todd D. Adams (not pictured)

Division Director

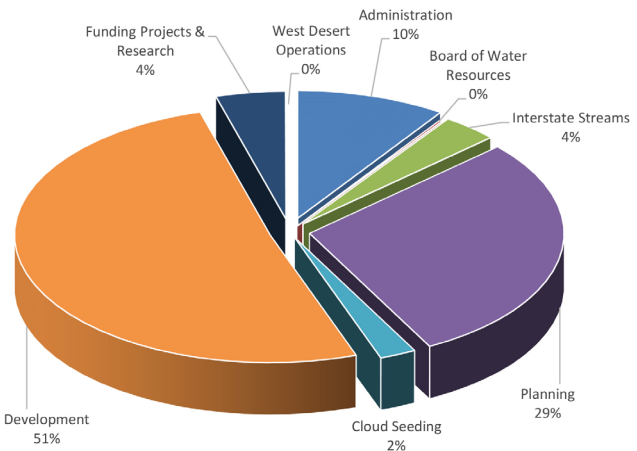
DWRe Financials

**Fiscal Year Ending
June 30, 2020**
(Unaudited)

Revenue
\$11,040,670



Expenses
\$11,040,670



Utah Division of Water Rights (DWRi)

Mission Statement

"The Division of Water Rights promotes order and certainty in administering the beneficial use of Utah's water."



GUNLOCK FALLS
Southern Utah
Photo by Jim Reese



GEOHERMAL WELL
Hot Springs 15 miles southwest of Milford, Utah
Photo by Jim Goddard

Utah Division of Water Rights



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waterrights.utah.gov

Executive Team



L to R: Michael Drake, Jim Reese, Teresa Wilhelmsen, Marianne Burbidge, Gary Belliston, Blake Bingham, David Marble, James Greer, Jared Manning

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Michael Drake — Assistant State Engineer/Adjudication
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Marianne Burbidge — Administrative Assistant/
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Vernal, UT 84078
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Online Resources

Website

waterrights.utah.gov

Facebook

facebook.com/utahwaterrights

Director's Commitment

Being selected and appointed as the 20th State Engineer and the Division of Water Rights' Director at the beginning of 2020, I knew I was stepping into a role that would require me to lead through immense change. Some of that change was expected and some came unexpectedly as we found our Division needed to adapt our long-held work environment to address a public health crisis.

The expected change came with the retirement of nearly eighty years of institutional knowledge. Prior State Engineer Kent Jones retired in November 2019 after a 39-year career. He served as State Engineer and Division Director for the last 14-years of his service. In June 2020, Deputy State Engineer Boyd Clayton retired after a 40-year career where he served in many leadership roles within our Division. Their leadership and foresight strengthened the legacy of the State Engineer's Office and left us with a resilient work force that would need to adapt to the unexpected change we were to face in 2020.

With a history that began in 1897, the State Engineer's Office has evolved and demonstrated a pattern of being resilient in change. We have sought to embrace new technologies as our agency makes legally correct decisions, measures and delivers water to water right holders, and effectively works toward the completion of court ordered Adjudications.

The growing need for water has led to more and more difficult water rights decisions. The development of new tools to automate required records management, measurement and distribution of water, and administrative processes have helped us reduce processing times with facing budget restrictions. These tools have also enabled us to effectively track work product and has led us adapt to a hybrid work environment of continued in-office public service and telework initiatives.

Resiliency is a toughness and capacity to recover quickly from difficulties. The well qualified staff of the Division of Water Rights have certainly shown this year a resiliency through immense change. I value every member of our staff, appreciate our continued communication with the public, and look forward to continuing the great work of the Office of the State Engineer.



Teresa Wilhelmsen
State Engineer/Division Director

Division Accomplishments

- ◆ Legislature passed three water bills, HB94, HB95, and HB96 proposed by the Division and supported by Utah Water Task Force covering a wide range of water right topics.
- ◆ Significant progress on general adjudication in the Salt Lake Valley. Claims were summoned in five proposed determination areas; 2,107 claims were processed; 58,387 notices provided and 28 objections resolved.
- ◆ State Engineer participated in efforts to develop water banking legislation.
- ◆ State Engineer petitioned and participated amicus in the hearing of the Kent's Lake vs Rocky Ford Supreme Court Case.
- ◆ Real time measurement and development of online distribution models is modernizing river distribution practice.
- ◆ Modification to Synderville groundwater management plan adopted. Proposed a groundwater management plan in Cedar Valley.
- ◆ Public meeting held to initiate discussions to create a distribution plan for the Jordan River.



*REDMOND LAKE
Redmond, Utah
Photo by Paula Martin*



*UPPER STILLWATER DAM
Duchesne County, Utah
Photo by Clark Adams*



*SNOW ICE WATER
Mount Olympus Wilderness area
Photo by Josh Zimmerman*

Key Services

Services delivered by the Division of Water Rights.

Action on applications in FY2019 was as follows:

<u>Filed</u>	<u>Action</u>	<u>Type</u>
389	400	Applications to Appropriate
1035	1298	Change Applications
98	107	Exchange Applications
254	282	Nonuse Applications
1083	999	Extension Requests
605	695	Certificates of Beneficial Use
254	284	Stream Alterations
5027	5173	Reports of Conveyance
322	322	Dam Safety Inspections
34	16	Enforcement Referrals
221	221	Licensed Well Drillers

Water Right Applications

Process water right applications and maintain permanent records for all water rights in state. Assist the public to access water right information and complete application forms required by the agency.

Distribution and Measurement of Water

Oversee water commissioners and provide support where the agency is directly involved in the daily distribution of water among water right holders.

Adjudication

Present to the district court a proposed determination of water rights within hydrologic areas of the state where such investigations have been ordered by the court and obtain an adjudication order decreeing those water rights.

Dam Safety

Physically inspect and monitor operation of public and private dams, approve new dam construction, consult and approve dam upgrades and intervene in emergencies. Inspections and monitoring efforts are based on each dam's hazard rating for potential loss of life and property.

Stream Channel Alterations

Process permits to alter the banks or beds of natural streams under terms of the Utah Code and a general permit from the US Army Corps of Engineers.

Geothermal

Process permits to use geothermal resources in the state. Inspect facilities and monitor pressure tests.

Well Drilling Regulations and Licensing

Oversee licensing and regulation of water well drillers in the state.

Studies and Technical Services

Collect water resources data for surface, groundwater, and use of water throughout the state. Perform studies to determine water availability and management alternatives. Support the integration of data automation technology in operations of the agency.

Enforcement

Administer the division's water rights, dam safety, and stream alteration enforcement program as authorized by statute and administrative rule. Investigate violations of Utah water right law and initiate actions which encourage compliance.

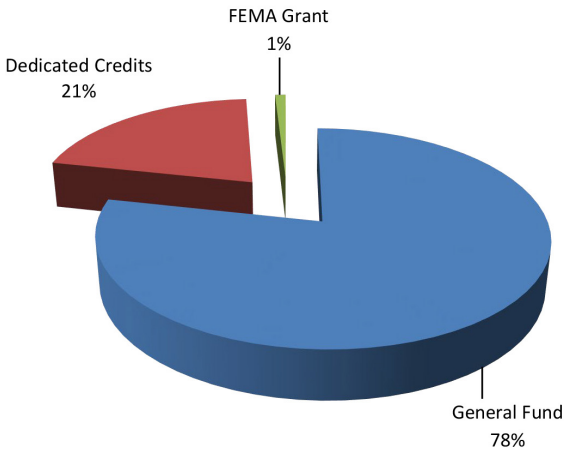


*FIRST SNOW ON THE MANTI
Photo by Marc Stilson*

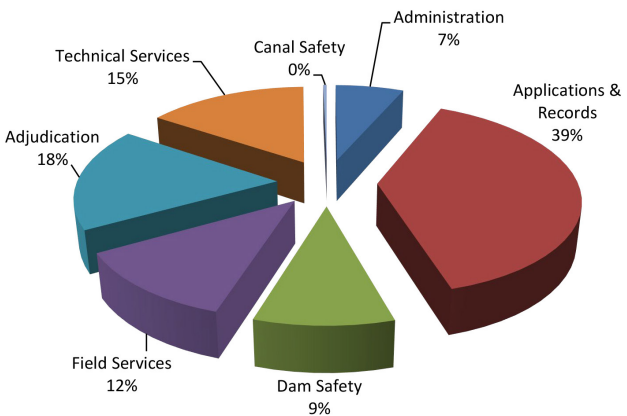
DWRi Financials

Fiscal Year Ending
June 30, 2020
(Unaudited)

Revenue
\$11,888,077



Expenses
\$11,788,007



Utah Division of Wildlife Resources (DWR)

Mission Statement

"The Division of Wildlife Resources serves the people of Utah as trustee and guardian of the state's fish and wildlife."



Resilience, persistence and partnerships are key requirements for anyone who works to restore bighorn sheep populations. Despite a variety of challenges in recent years, we successfully released bighorn sheep on the Mineral Mountains (October 2019) and Antelope Island (January 2020). Although bighorn sheep are susceptible to predators and disease, they are also a cherished species for many wildlife advocates and conservation organizations. At the DWR, we are proud to work with so many partners who care deeply about bighorns and have been unwavering in their support for ongoing efforts to restore and rebuild populations. Photo by Utah Division of Wildlife Resources

Utah Division of Wildlife Resources



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801-533-4709 (fax)
wildlife.utah.gov

Executive Team



L to R top: Mike Fowlks, Robin Goodman, Mike Canning

L to R bottom: Ashley Green, Riley Peck, Paige Wiren

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Mike Canning — Assistant Director
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Riley Peck — Legislative Liaison
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Paige Wiren — Administrative Assistant
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Miles Hanberg, Regional Supervisor
435-781-9453

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Ogden, UT 84405
Ben Nadolski, Regional Supervisor
801-476-2740

Southeastern Region

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Price, UT 84501
Chris Wood, Regional Supervisor
435-613-3700

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Cedar City, UT 84721
Kevin Bunnell, Regional Supervisor
435-865-6100

Washington County Field Office

451 North SR-318
Hurricane, UT 84737
435-879-8694



This spring, 10-year-old Tyler Grimshaw caught and released this impressive 41-pound lake trout at Flaming Gorge Reservoir. Photo by Vanessa Grimshaw

Online Resources

News and information

wildlife.utah.gov/wildlife-news.html

Calendar of events

wildlife.utah.gov/calendar

Utah hunting and fishing mobile app

wildlife.utah.gov/mobileapp

Hunting maps

wildlife.utah.gov/huntplanner

Fishing reports

wildlife.utah.gov/hotspots

Fish stocking updates

wildlife.utah.gov/stocking

Turn in a Poacher

wildlife.utah.gov/report-a-poacher.html

STD of the Sea (mussel decontamination)

stdofthesea.utah.gov

Utah's Wildlife Action Plan

wildlife.utah.gov/discover/wildlife-action-plan.html

Utah's Wildlife Migration Initiative

wildlifemigration.utah.gov

Facebook

facebook.com/UtahDWR

Twitter

twitter.com/UtahDWR

Instagram

instagram.com/UtahDWR/

YouTube

youtube.com/user/UDWR

Pinterest

pinterest.com/utahdwr/

DWR blog

wildlife.utah.gov/news/wildlife-blog.html

Director's Commitment

There have been so many occasions over the past year where I've been reminded how adaptable, resilient, and extraordinary our employees are.

This was a busy, challenging year, even before the pandemic hit. The combined toll of drought and a heavy winter reduced our deer herds and resulted in a slower-than-normal hunt in the fall of 2019. Then, to help those same herds, we had to make emergency changes in January to increase cougar harvest.

It wasn't all bad news, though. In January 2020, we partnered with many conservation organizations to reintroduce bighorn sheep to Antelope Island. The previous nursery herd had to be removed in 2019 because of respiratory disease.

Of course, all of those events pale in comparison to the pandemic, which became a life-changing reality in mid-March. We carefully followed Gov. Herbert's directives, and most of our employees began working remotely.

Since then, we've risen to the occasion again and again. We embraced new technologies and innovative ideas. We successfully shifted our entire public-input and regulatory process online using Google Hangouts. Participants liked some of the changes so much that they asked to continue doing things the new way, even after the pandemic is over.

Across the agency, our teams adapted and kept working hard. Some of us got sick and were quarantined — even hospitalized — but our coworkers stepped up to get the work done.

And that work has only increased throughout the pandemic. As more Utahns have spent time outdoors, we've seen them show growing interest in fishing and hunting. Licenses and permits are selling at record rates, and our officers are encountering more people in the field than ever before.

We've kept doing remarkable work, even in the face of extreme uncertainty. I'm so proud of our employees and the dedication they demonstrate day after day. Utah's fish, wildlife and habitats are exceptional because of their efforts.

The pandemic isn't over, but I'm confident that our experiences this year have helped us more than we realize. We are beginning a new process to refocus our future efforts that will allow us to be in a stronger, better place in the years to come.



Mike Fowlks
Division Director

Division Accomplishments

Some of our key accomplishments over the past year include:

- ◆ Using technology and innovation to improve how we do our jobs—while also meeting steep increases in recreational demands—throughout the pandemic.
- ◆ Continuing our work with many partners to successfully conserve the June sucker, which the U.S. Fish and Wildlife Service proposed reclassifying from “endangered” to “threatened” in November 2019.
- ◆ Updating the Utah Mule Deer Statewide Management Plan and taking stronger measures to protect big game populations from predators.
- ◆ Inspecting nearly 300,000 boats for invasive quagga mussels during the 2019 boating season and enforcing new laws that strengthen efforts to protect Utah’s waterbodies and water systems.
- ◆ Launching the new Utah Wildlife Migration Initiative website in March 2020 to provide the public with more information about the species we’re tracking and how that data can benefit both wildlife and people.
- ◆ Working closely with conservation organizations and others to bolster Utah’s bighorn sheep populations with releases on the Mineral Mountains (October 2019) and Antelope Island (January 2020).
- ◆ Securing funding for fish hatchery improvements so we can meet increasing public demand.
- ◆ Partnering with other agencies and organizations in Utah’s Watershed Restoration Initiative to rehabilitate and restore more than 1.8 million acres of wildlife habitat since 2006.
- ◆ Meeting the increased need for wildlife law enforcement while also assisting partner agencies with search-and-rescue operations, wildfire evacuations, and other efforts.

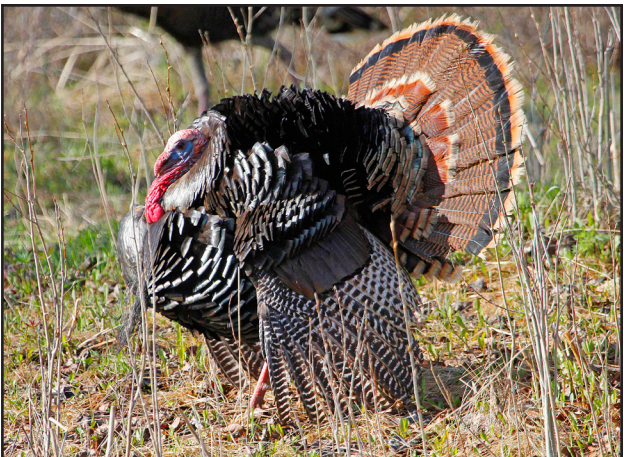


With funding from the Utah Legislature and on-the-ground assistance from Utah State Parks, the DWR inspects and decontaminates watercraft to prevent invasive quagga mussels from spreading throughout Utah. Photo by Utah Division of Wildlife Resources

Forecast

During the next fiscal year, we will continue to:

- ◆ Take a hands-on approach in conserving, enhancing, and actively managing the state's fish and wildlife populations for the benefit of all Utahns.
- ◆ Rehabilitate landscapes burned by wildfires, maintain existing wildlife habitat, and increase the quality of critical habitats and watersheds throughout the state.
- ◆ Battle against invasive species, including quagga mussels, that threaten Utah's wildlife and economic interests.
- ◆ Increase trust and promote voluntary compliance with wildlife laws by serving the public with integrity, compassion, and respect.
- ◆ Use the wildlife research and migration data we're collecting to work with other stakeholders in reducing or mitigating migration barriers.
- ◆ Increase our understanding of our customers—and the broader public—and take reasonable steps to address their needs, wishes, and priorities.
- ◆ Manage sensitive species populations to prevent them from being federally listed as threatened or endangered, and work to delist those species that are currently listed.
- ◆ Increase our coordination with partners, including local, state, and federal agencies; non-governmental organizations; universities and others.
- ◆ Explore and implement new technologies that improve our ability to communicate with our customers and garner their support for future wildlife management.



Despite the pandemic, a record number of people participated in Utah's 2020 spring turkey hunt. Photo by Jim Shuler

Key Services

Certificates of Registration

Issues licenses and certificates of registration to falconers, private pond owners, and people who want to own exotic pets.

Community Fisheries Program

Partners with local governments to provide community fishing opportunities for Utah youth and families.

Dedicated Hunter Program

Provides additional hunting opportunities for Utah deer hunters who perform volunteer service benefiting wildlife.

Fisheries Experiment Station

Monitors Utah's wild fish populations and the Division's fish hatcheries. Provides hatcheries with disease assessment and treatments.

George S. and Dolores Doré Eccles Wildlife Education Center

Features an education center (801-451-5536) and nature trails to educate visitors about the Great Salt Lake wetlands and active wildlife management.

Great Basin Research Center and Seed Warehouse

Conducts rangeland-rehabilitation research. Also stores, mixes, and distributes seed for restoration projects.

Hatcheries

Owns and operates Utah's state fish hatcheries.

Hunter Education

Trains individuals in the safe handling of firearms and responsible hunting ethics. The Lee Kay Center for Hunter Education (801-972-1326) and the Cache Valley Hunter Education Center (435-753-4600) provide Hunter Education courses and public shooting ranges.

Licenses and Permits

Sells hunting and fishing licenses and permits.

Natural Heritage Program

Identifies and monitors sensitive plant and animal species, and maintains a database for making natural resource decisions.

Website and Communications

Provides many online services and tools. Customers can visit *wildlife.utah.gov* to buy hunting and fishing licenses, download regulation guidebooks, and find a wealth of information about Utah's wildlife.

Wildlife Recreation Program

Offers many wildlife-viewing events as well as hands-on clinics and seminars that provide instruction on hunting, fishing, shooting, and more.

Utah Wildlife Board



L to R: Randy Dearth, Bret Selman, Donnie Hunter, Kevin Albrecht, Karl Hirst and Wade Heaton (not pictured: Byron Bateman)

Byron Bateman, Chair

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Bret Selman

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Mike Fowlks, Executive Secretary

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Southeastern Region

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Southern Region

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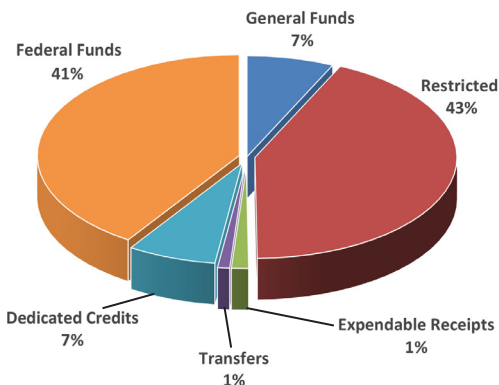


Sergeant Randy Scheetz and K-9 Sam patrol together in northeastern Utah. Photo by Utah Division of Wildlife Resources

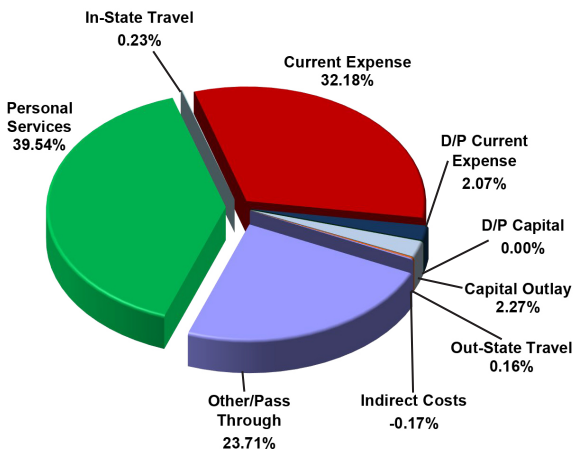
DWR Financials

**Fiscal Year Ending
June 30, 2020**
(Unaudited)

Revenue \$104,402,494



Expenses \$104,402,494



Habitat Council Spending by Program (Category)

Waterfowl	\$187,024	6.67%
Upland Game	\$302,455	10.79%
Big Game	\$882,851	31.49%
Non-Game Terrestrial	\$27,371	0.98%
Sportfish	\$1,265,216	45.13%
Non-Game Fish	\$138,553	4.94%
	\$2,803,469	100.00%

Utah Geological Survey (UGS)

Mission Statement

"The Utah Geological Survey provides timely scientific information about Utah's geologic environment, resources, and hazards."



Examination of subsurface exposures of hazardous faults allows UGS geologists to better characterize the hazard as well as confirm the geologic mapping of such features.

Utah Geological Survey



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geology.utah.gov

Executive Team



L to R top row: R. William Keach II, Michael Hylland, Grant Willis, Steve Bowman; L to R bottom row: Hugh Hurlow, Michael Vanden Berg, Jodi Patterson, Starr Soliz

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Hugh Hurlow — Groundwater Program Manager
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Mark Milligan — Geologic Information & Outreach Program Manager
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Jodi Patterson — Financial Manager
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Starr Soliz — Executive Secretary
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Regional Office

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Online Resources

Website

geology.utah.gov

Natural Resources Map & Bookstore

utahmapstore.com

Utah Geological Survey Library

geology.utah.gov/library

Blog

geology.utah.gov/blog

Facebook

facebook.com/UTGeologicalSurvey

Twitter

twitter.com/utahgeological

LinkedIn

linkedin.com/company/utah-geological-survey



Staff from the Utah Geological Survey and Division of Parks and Recreation collaborated to investigate the rare occurrence of mirabilite mounds in Great Salt Lake.

Director's Commitment

The Utah Geological Survey assists government, industry, and the general public by gathering, interpreting, and publishing geologic information. Our goal is to see that geologic information is used as part of wise stewardship of public and private resources. Knowledge of the location and resource potential of Utah's geologic commodities—including oil and gas, coal, metals, industrial minerals, and groundwater—as well as the location, magnitude, and frequency of geologic hazards such as landslides and earthquakes, are essential inputs to local and statewide plans incorporating likely future resource development, urban growth, and infrastructure expansion. We continue to improve public accessibility to critical geologic information through new web apps and interactive maps. UGS website use continues to increase as more information is uploaded to our site, with now over 1 million web page visits per year. The UGS will continue to pursue opportunities to apply new technologies to meet the diverse needs of a growing state.



Bill Keach
State Geologist/Director

Division Accomplishments

- ◆ The Energy and Minerals Program published two timely and important reports: (1) *Critical Minerals of Utah*, which highlights and summarizes Utah's current and potential critical mineral production, and (2) *Utah's Energy Landscape—5th Edition*, which reviews Utah's energy economy as it continues to evolve and as the balance between fossil fuels and renewable energy changes.
- ◆ The Geologic Hazards Program launched the Utah Geologic Hazards Portal (<https://geology.utah.gov/apps/hazards/>), which supports community resilience by providing statewide geologic hazards information for improved land-use development and management. Information in the Portal includes the results of a recently completed UGS investigation of geologic hazards within Glen Canyon National Recreation Area.
- ◆ The Geologic Information and Outreach Program partnered with the Division of Emergency Management to develop the earthquakes.utah.gov website to answer questions about the March 18, 2020, Magna earthquake and to provide a single online point of access for important scientific, preparedness, and response information provided by multiple state and federal agencies addressing earthquakes in Utah.

- ◆ The Geologic Mapping Program released to the public twelve new or substantially revised geologic maps that better depict the geology of various parts of Utah. Several continue the focused effort on improving geologic mapping of the greater Wasatch area to benefit land management, water protection and use, geologic hazard planning and mitigation, and geotechnical studies for growth and development.
- ◆ The Paleontology section of the Geologic Mapping Program coordinated the move of the 9-ton *Utahraptor* “megablock” from the Museum of Ancient Life at Thanksgiving Point to its new home in renovated space in the Utah Core Research Center. Research is continuing with exciting new fossil discoveries being made regularly.
- ◆ The Groundwater section of the Groundwater and Wetlands Program made substantial progress in ongoing projects including hydrogeologic studies of Juab Valley and Emery Valley (aka Bryce Canyon City Valley), hydrologic monitoring of environmental restoration projects, hydrogeologic studies for a geothermal energy demonstration project, and evaluation of groundwater flow to Great Salt Lake.
- ◆ The Wetlands section of the Groundwater and Wetlands Program made substantial progress in ongoing projects including development of a wetland plant data web application, wetland mapping in Cache Valley, development of a wetland reference network and baseline condition assessment in the Central Basin and Range ecosystem, and wetland water-level monitoring in Snake Valley.

Forecast

Critical issues and goals for the UGS are:

- ◆ It is critical we continue to expand our understanding of Utah’s groundwater potential and assist the State Engineer to sustainably develop these resources.
- ◆ The magnitude 5.7 Magna earthquake in March highlighted the importance to develop and publish uniform comprehensive geologic-hazard map sets that will aid Utah local governments and others in managing growth while protecting their citizens.
- ◆ Assist research into the ability of Utah’s deep geologic reservoirs to safely sequester waste fluids from extractive industries.
- ◆ Expand our understanding of wetlands environments through mapping of animal and plant species in fragile areas, particularly in areas of urban development
- ◆ Continue to work on identification and deployment of alternative energy sources. The UGS will continue to partner in the FORGE geothermal project.

- ♦ Recent increases in rural/outdoor activities underscore the need to continue our efforts to protect important paleontological resources throughout the state.
- ♦ Explore budgetary options for reduced reliance on volatile and generally decreasing revenue from federal Mineral Lease royalties. Continue to pursue outside funding sources via cooperative projects with academia and local government agencies.
- ♦ Develop succession plans for potential retirements coming in the next few years. Certain programs may be impacted by multiple retirements in a 1–2-year timeframe. Critical to develop methods to capture and maintain their “institutional knowledge” before retirement.
- ♦ Identify and implement technologies to both enhance current workflows and be in place to attract future staff as retirements occur.



UGS Groundwater and Wetlands Program staff measure stream flow to understand interactions between surface water and groundwater.



Immediately following the magnitude 5.7 Magna earthquake on March 18, 2020, UGS Geologic Hazards geologists conducted a reconnaissance across northern Salt Lake Valley to document geologic effects of the earthquake, which included small lateral spreads along the banks of the Jordan River.

Key Services

Utah Core Research Center (UCRC)

The UCRC serves as a repository and laboratory for Utah well cuttings and core, providing petroleum, coal, and geologic samples for industry and academic research as well as public education.

Geologic-Hazard Assistance

The Geologic Hazards Program assists governments in responding to geologic-hazard emergencies, reviews geologic hazard reports for school districts, investigates geologic hazards, and prepares geologic-hazard maps for use by local governments, consultants, and the public.

Natural Resources Map & Bookstore

In addition to offering a selection of publications and maps on Utah geology and other natural resource topics, the Bookstore is the only retail outlet that maintains an inventory of topographic maps for the entire state of Utah.

Water Resource/Environmental Evaluations

The Groundwater Program evaluates groundwater resources and protects drinking-water supplies by investigating the environmental impacts of waste disposal, storage, and treatment facilities for local, state, and federal agencies.

Public Inquiry

The Geologic Information and Outreach Program provides information on Utah geology and geologic issues to governments, industry, educators, and the general public.

Energy and Mineral Evaluations

Geologists specializing in Utah's various energy resources and minerals investigate and provide energy and mineral resource information on county, state, or federal lands to local, state, and federal agencies.

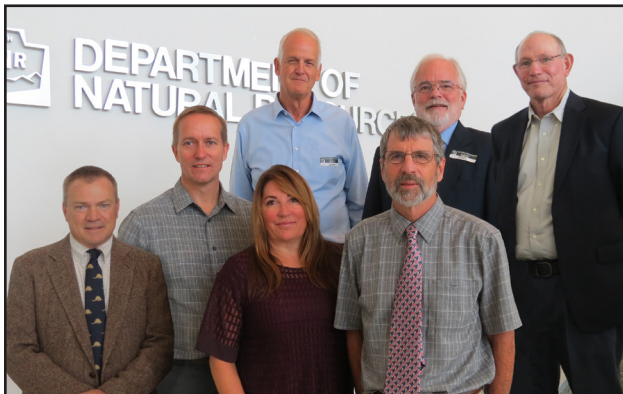
Paleontological Services

The Paleontology Section evaluates paleontological sites, excavates critical fossils in danger of destruction, and issues paleontological excavation permits.



The 9-ton "megablock" of Utahraptor fossils, encased in plaster, comes to rest in its newly renovated space at the UGS's Utah Core Research Center, where research will continue for years to come.

Board of the Utah Geological Survey



L to R: Ken Fleck, Rick Chesnut, Elissa Richards, Dave Garbrecht, Pete Kilbourne, Marc Eckels, Sam Quigley (not pictured: David Ure)

Elissa Richards, Chair

Public-at-large

Ken Fleck, Vice Chair

Minerals (Coal)

Marc Eckels

Minerals (Hydrocarbons)

Rick Chesnut

Engineering Geology

Dave Garbrecht

Minerals (Metals)

Pete Kilbourne

Scientific Interests

Sam Quigley

Minerals (Industrial)

David Ure

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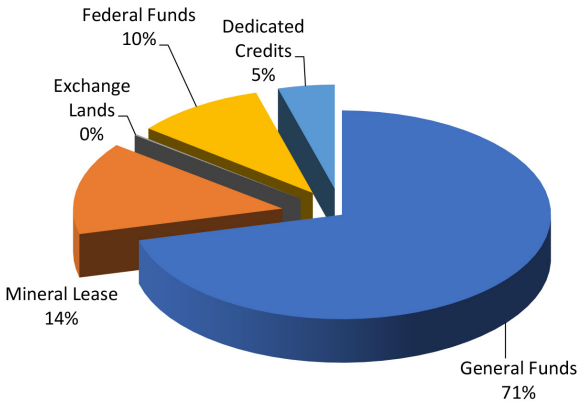


Metate Arch in the Devils Garden area of Grand Staircase - Escalante National Monument, Garfield County.

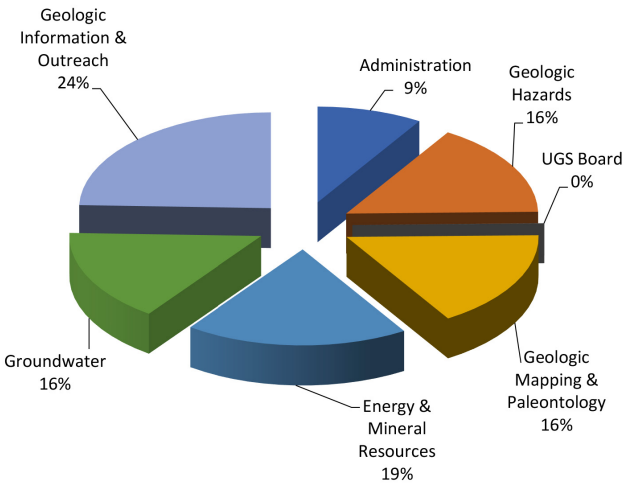
UGS Financials

Fiscal Year Ending
June 30, 2020
(Unaudited)

Revenue
\$7,824,929



Expenses
\$7,824,929



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